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**C SERIES –
 FLAME RETARDANT
 GRADE**

Sunchem C series EPS is flame retardant EPS which is passed the evaluation from US Underwriters Laboratories Inc.(UL) and the approval number is E248974. C series obtains the properties of excellent flame retardation, high expansion ratio, rapid expansion, low shrinkage rate of block, wide range of operation and suitable for various block machines, automatic machines and manual pressers. C series EPS can be widely used for thermal insulation, construction materials, lightweight fill materials and packing for electronic appliance, etc.

Select the size of bead as per the requirements on product shape and density. Sunchem can provide full series and satisfy all kinds of inquiries.

Series	Grade	Bead Size(mm)	Foam density(g/l)	Principal Applications
C-SELF EXTINGUISH-ING GRADE	C-102	1.40-2.00	14-20	Use for block
	C-103	1.00-1.60	10-12.5	Use for block and big packing product
	C-104	0.85-1.25	11-14	Use for block and big packing product
	C-105	0.70-1.00	12.5-13	Use for block and middle density packing
	C-106	0.50-0.80	13-18	Use for high density block and special use
	C-107	0.40-0.60	25-33	Use for high density block and special use
	C-108	0.30-0.50	18-50	Use for high density block and special use

Technical Specification:

Specifications	C-series
Sieving	95%
Bulk density	0.5-0.6
Blowing agent	Pentane
Blowing agent	>6.0%
Residual Monomer	≤0.3%
Moisture content	≤0.5%
CFC content	nil

Processing:

1. Pre-expansion: Batch pre-expander ("FANGYUAN" PSJ-110 type)

Item	C-series
Main steam pressure(kg/cm²)	5 - 6
Steam pressure for pre-expanding(kg/cm²)	1.10
Temperature in vessel(°C)	108-110
Feeding speed(kg/times)	4.8-5.6
Heating time(s)	25 - 35
Weight(g/L)	10.5 - 13.5

2. Aging time:

Maturation after pre-expansion	C-series
Summer & Autumn	3 - 4h
Winter & Spring	3 - 4h

3. Molding: ("jin Cheng" JC-II D type)

Molding data	C-series
Main steam pressure(kg/cm ²)	5.0 – 7.0
Air pressure(kg/cm ²)	5.0 – 7.0
Cooling water pressure(kg/cm ²)	3.5 – 5.0
Penetrating pressure(kg/cm ²)	0.50-0.65
Molding pressure(kg/cm ²)	0.50-0.63
Mold fixing pressure(kg/cm ²)	0.40-0.50
Mold moving pressure(kg/cm ²)	0.35-0.45
Penetrating heating (s)	11-17
Molding heating (s)	6-10
Heat preserving time (s)	5
Water cooling time (s)	15-25
Draining (s)	2-5
Sealed time (s)	10-15
Cycle time (s)	130-150

4. Big size Molding of construction material:

Big Size Molding of construction material	C-103	C-104			C-105	C-106
	PSB-600C(size:6.06m*1.28m*1.005m)					
Aging time(g/l)	6.2 – 7.0	10.5-11.2	7.0-7.6	12.0-12.8	7.5-8.2	6.8-7.4
Air pressure(Mpa)	0.08	0.08	0.09	0.08	0.09	0.08
Preheating time(s)	8	8	8	6	8	8
Penetrating pressure1(Mpa)	0.058	0.06	0.07	0.058	0.07	0.05
Penetrating pressure2(Mpa)	0.08	0.077	0.089	0.08	0.089	0.08
Penetrating time1(s)	11	13.2	8	13	13	10.5
Penetrating time2(s)	1.3	1.3	1.3	1.3	1.3	1.3
Heat preserving time (s)	12	12	12	8	12	12
Blow down time(s)	12	12	12	12	12	12
Cooling time(s)	280	300	250	300	250	250
Unlock time (s)	5.4	5.4	5.4	5.4	5.4	5.4
Molding unload (s)	13.2	13.2	13.2	13.2	13.2	13.2
Demoulding (s)	1	1	1	1	1	1

Notice:

The above tables show the types and grades of SUNCHEM EPS that are currently available.

IMPORTANT: The data descriptions, designs, and information contained herein are believed to be accurate to the best knowledge of SUNCHEM. It is intended for your guidance only.

Considering different equipments etc., the processing data above is only for reference.